

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : ID 213 Instrument disinfection
Revision date : 21.09.2022
Print date : 21.09.2022

Version (Revision) : 7.0.0 (6.0.0)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

ID 213 Instrument disinfection
Unique Formula Identifier : VM99-345S-660C-0CVN

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

ID 213 is an aldehyde-free concentrate for the disinfection and cleaning of general dental instruments.

Products Category [PC]

PC 0 - Other
Disinfectants

Uses advised against

None, if handled according to order.

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier

orochemie GmbH + Co. KG

Street : Max-Planck-Straße 27

Postal code/City : 70806 Kornwestheim

Telephone : +49 7154 1308-0

Telefax : +49 7154 1308-40

Information contact : DÜRR DENTAL SE, Höpfigheimer Str. 17, 74321 Bietigheim-Bissingen, Germany
Tel: +49 7142 705-0, Fax: +49 7142 705-500, info@duerrdental.com
in Great Britain/Ireland:
DÜRR DENTAL [Products] UK Ltd., 14 Linnell Way - Telford Way Industrial Estate, Kettering Northants NN16 8PS,
United Kingdom, info@duerruk.com

1.4 Emergency telephone number

INT: +49 6132 84463 (24 h/7 d)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.
STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.
Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

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Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9
ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1
ALCOHOLS, C12-15, branched and linear, ethoxylated ; CAS No. : 106232-83-1

Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains MENTHA ARVENSIS. May produce an allergic reaction.

2.3 Other hazards

The mixture does not contain any substances that have endocrine disrupting properties. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

ID 213 contains alkylamines, quaternary ammonium compounds, non-ionic surfactants, complexing agents, corrosion inhibitors, coumarin, citronellol, mentha arvensis, fragrances and auxiliary agents in aqueous solution.

Hazardous ingredients

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; REACH No. : 01-2119980592-29 ; EC No. : 219-145-8; CAS No. : 2372-82-9

Weight fraction : $\geq 10 - < 15$ %
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 STOT RE 2 ; H373 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
Specific Conc. Limits : (M Chronic=1) • (M Acute=10)

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; REACH No. : 01-2119970550-39 ; EC No. : 270-325-2; CAS No. : 68424-85-1

Weight fraction : $\geq 10 - < 15$ %
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
Specific Conc. Limits : (M Chronic=1) • (M Acute=10)

SODIUM NITRITE ; REACH No. : 01-2119471836-27 ; EC No. : 231-555-9; CAS No. : 7632-00-0

Weight fraction : $\geq 1 - < 2,5$ %
Classification 1272/2008 [CLP] : Ox. Sol. 3 ; H272 Acute Tox. 3 ; H301 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400

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ALCOHOLS, C12-15, branched and linear, ethoxylated ; REACH No. : Polymer ; CAS No. : 106232-83-1

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Chronic 3 ; H412

FATTY ALCOHOL POLYGLYCOL ETHER ; REACH No. : Polymer ; CAS No. : 26183-52-8

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318

LAURYLAMINO PROPYLAMINE ; EC No. : 226-902-6; CAS No. : 5538-95-4

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400

Specific Conc. Limits : (M=1)

ALCOHOLS, C9-11, ethoxylated ; REACH No. : Polymer ; CAS No. : 68439-46-3

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

MENTHA ARVENSIS ; REACH No. : 01-2119973492-30 ; EC No. : 290-058-5; CAS No. : 90063-97-1

Weight fraction : $\geq 0,1 - < 0,5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

DODECYLAMINE ; EC No. : 204-690-6; CAS No. : 124-22-1

Weight fraction : $\geq 0,025 - < 0,25 \%$

Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Skin Corr. 1B ; H314 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Specific Conc. Limits : (M=10)

CITRONELLOL ; REACH No. : 01-2119453995-23 ; EC No. : 203-375-0; CAS No. : 106-22-9

Weight fraction : $< 0,1 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

COUMARIN ; REACH No. : 01-2119943756-26 ; EC No. : 202-086-7; CAS No. : 91-64-5

Weight fraction : $< 0,1 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Sens. 1B ; H317 Aquatic Chronic 3 ; H412

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. Specific Target Organ Toxicity (STOT)/Aspiration Toxicity.

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4.3 Indication of any immediate medical attention and special treatment needed

If unconscious but breathing normally, place in recovery position and seek medical advice.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Extinguishing powder Water spray jet Water mist The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

None known.

Hazardous combustion products

None known.

5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

Special protective equipment for firefighters

Adapt protective equipment to surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. See protective measures under point 7 and 8.

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Personal protection equipment

See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Other information

Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Provide adequate ventilation. Do not breathe vapour/aerosol.

Protective measures

Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

Store the foodstuffs separately.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

There are no data available on the preparation itself.

DNEL/DMEL

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,7 mg/m³

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 0,54 mg/kg

Assessment factor : 24 h

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 0,2 mg/kg

Assessment factor : 24 h

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 2,35 mg/m³

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 0,91 mg/kg

Assessment factor : 24 h

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 3,4 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 3,4 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 1,64 mg/m³

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

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Limit value : 3,96 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 5,7 mg/kg

SODIUM NITRITE ; CAS No. : 7632-00-0
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 2 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 2 mg/m³

MENTHA ARVENSIS ; CAS No. : 90063-97-1
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 2,5 mg/kg
Assessment factor : 24 h
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 2,5 mg/kg
Assessment factor : 24 h
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 8,7 mg/m³
Limit value type : DMEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 5 mg/kg
Assessment factor : 24 h
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 35,3 mg/m³

CITRONELLOL ; CAS No. : 106-22-9
Limit value type : DNEL Consumer (local)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 2,95 mg/cm²
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 10 mg/m³
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 10 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 196,4 mg/kg bw

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Assessment factor : 24 h
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 13,8 mg/kg bw
Assessment factor : 24 h
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 47,8 mg/m³
Limit value type : DMEL worker (local)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 2,95 mg/cm²
Limit value type : DMEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 10 mg/m³
Limit value type : DMEL worker (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 10 mg/m³
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 161,6 mg/m³
Limit value type : DMEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 327,4 mg/kg bw
Assessment factor : 24 h
COUMARIN ; CAS No. : 91-64-5
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1,69 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 0,39 mg/kg
Assessment factor : 24 h
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,39 mg/kg
Assessment factor : 24 h
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 6,78 mg/m³
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,741 mg/m³
Limit value type : DMEL worker (systemic)

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Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,79 mg/kg
Assessment factor : 24 h

PNEC

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,001 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,0001 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 8,5 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,85 mg/kg
Limit value type : PNEC (Soil)
Limit value : 45,34 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 1,33 mg/l

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,001 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,001 mg/l
Limit value type : PNEC (Industrial)
Exposure route : Soil
Limit value : 7 mg/kg
Limit value type : PNEC (Sediment, freshwater)
Limit value : 12,27 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 13,09 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 0,4 mg/l

SODIUM NITRITE ; CAS No. : 7632-00-0

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,0054 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,00616 mg/l
Limit value type : PNEC (Industrial)
Exposure route : Soil
Limit value : 0,00073 mg/kg
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,0195 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,0223 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 21 mg/l

MENTHA ARVENSIS ; CAS No. : 90063-97-1

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 5,4 µg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,54 µg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 1,3 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,13 mg/kg

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Limit value type :	PNEC (Soil)
Limit value :	0,29 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	1,8 mg/l
CITRONELLOL ; CAS No. : 106-22-9	
Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	0,0024 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,00024 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,0256 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,00256 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,00371 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	580 mg/l
COUMARIN ; CAS No. : 91-64-5	
Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	19 µg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	1,9 µg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	0,15 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,015 mg/kg
Limit value type :	PNEC (Soil)
Limit value :	0,018 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	6,4 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection EN 166

Skin protection

Hand protection

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Body protection

Body protection: not required.

Respiratory protection

Usually no personal respiratory protection necessary.

General information

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

Other protection measures

Provide adequate ventilation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : blue

Odour : Amines

Safety characteristics

Melting point/freezing point :	(1013 hPa)			not determined
Initial boiling point and boiling range :	(1013 hPa)	approx.	100	°C
Decomposition temperature :	(1013 hPa)			not determined
Flash point :				not applicable
Auto-ignition temperature :				not applicable
Lower explosion limit :				not applicable
Upper explosion limit :				not applicable
Vapour pressure :	(50 °C)			not determined
Density :	(20 °C)	approx.	1	g/cm ³
Solvent separation test :	(20 °C)	<	3	%
Water solubility :	(20 °C)		100	Weight-%
pH value :			11,5 - 12,5	
pH value :	(20 °C / 20 g/l)		9,5 - 10,5	
log P O/W :				not determined
Flow time :	(20 °C)	<	20	s DIN-cup 4 mm
Odour threshold :				not determined
Maximum VOC content (EC) :			1	Weight-%
Oxidising liquids :				Not applicable.
Explosive properties :				Not applicable.
Corrosive to metals :				Not corrosive to metals.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7). Reactions with acids: development of heat.

10.3 Possibility of hazardous reactions

Reactions with acids possible

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful: possible risk of irreversible effects if swallowed.

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Acute oral toxicity

Parameter : LD50
Exposure route : Oral
Species : Rat
Effective dose : approx. 1258 mg/kg
Method : OECD 401
Parameter : ATE (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9)
Exposure route : Oral
Effective dose : 100 mg/kg
Parameter : ATE (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Exposure route : Oral
Effective dose : 500 mg/kg
Parameter : ATE (SODIUM NITRITE ; CAS No. : 7632-00-0)
Exposure route : Oral
Effective dose : 100 mg/kg
Parameter : ATE (COUMARIN ; CAS No. : 91-64-5)
Exposure route : Oral
Effective dose : 500 mg/kg

Practical experience/human evidence

Eye contact with a 2 % application solution is associated with an irritating effect, but skin contact does not cause any irritations.

Acute dermal toxicity

Parameter : LD50
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402
2 % solution.

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation (vapour)
Effective dose : not relevant

Corrosion

Causes severe skin burns and eye damage. Rabbit skin: non-irritant (2 % solution). Rabbit eye: irritant (2 % solution). Method : OECD 405.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. May cause sensitisation especially in sensitive humans.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

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Endocrine disrupting properties

The mixture does not contain any substances that have endocrine disrupting properties.

Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Very toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter :	LC50 (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9)
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 0,1 - 1 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	0,85 mg/l
Exposure time :	96 h
Parameter :	LC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 0,1 - 1 mg/l
Exposure time :	96 h
Parameter :	LC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	0,28 mg/l
Exposure time :	96 h
Parameter :	LC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	0,515 mg/l
Exposure time :	96 h
Parameter :	LC50 (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	0,54 - 26,3 mg/l
Exposure time :	96 h
Parameter :	LC50 (ALCOHOLS, C12-15, branched and linear, ethoxylated ; CAS No. : 106232-83-1)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1 - 10 mg/l
Exposure time :	96 h
Parameter :	LC50 (ALCOHOLS, C9-11, ethoxylated ; CAS No. : 68439-46-3)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1 - 10 mg/l
Exposure time :	96 h

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Parameter : LC50 (FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 96 h

Parameter : LC50 (MENTHA ARVENSIS ; CAS No. : 90063-97-1)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 3,01 mg/l
Exposure time : 96 h

Parameter : EC50 (MENTHA ARVENSIS ; CAS No. : 90063-97-1)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 2,43 mg/l
Exposure time : 48 h

Parameter : LC50 (CITRONELLOL ; CAS No. : 106-22-9)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 14,66 mg/l
Exposure time : 96 h

Parameter : LC50 (COUMARIN ; CAS No. : 91-64-5)
Species : Poecilia reticulata (Guppy)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 56 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Pimephales promelas (fathead minnow)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 0,032 mg/l
Exposure time : 816 h

Parameter : NOEC (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species : Fish
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 6,16 mg/l
Exposure time : 744 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 0,01 - 0,1 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,016 mg/l
Exposure time : 48 h

Parameter : EC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Daphnia pulex (water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 0,01 - 0,1 mg/l
Exposure time : 48 h

Parameter : EC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)

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Species : Daphnia pulex (water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,016 mg/l
Parameter : EC50 (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 15,4 - 99 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 4,93 mg/l
Parameter : EC50 (ALCOHOLS, C12-15, branched and linear, ethoxylated ; CAS No. : 106232-83-1)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 48 h
Parameter : EC50 (ALCOHOLS, C9-11, ethoxylated ; CAS No. : 68439-46-3)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 48 h
Parameter : EC50 (FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 48 h
Parameter : EC50 (CITRONELLOL ; CAS No. : 106-22-9)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 17,48 mg/l
Exposure time : 48 h
Parameter : LC50 (COUMARIN ; CAS No. : 91-64-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 13,5 mg/l
Exposure time : 48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : > 0,01 - 0,1 mg/l
Exposure time : 504 h
Method : OECD 211
Parameter : NOEC (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,0042 mg/l
Exposure time : 504 h
Parameter : NOEC (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species : Daphnia
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 9,86 mg/l

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Exposure time : 1920 h
Parameter : NOEC (ALCOHOLS, C12-15, branched and linear, ethoxylated ; CAS No. : 106232-83-1)
Species : Daphnia
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,1 - 1 mg/l
Parameter : NOEC (ALCOHOLS, C9-11, ethoxylated ; CAS No. : 68439-46-3)
Species : Daphnia
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 1 - 10 mg/l

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 0,01 - 0,1 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : IC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 0,01 - 0,1 mg/l
Exposure time : 72 h
Parameter : ErC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,049 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Method : OECD 201
Parameter : EC50 (ALCOHOLS, C12-15, branched and linear, ethoxylated ; CAS No. : 106232-83-1)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 72 h
Parameter : EC50 (ALCOHOLS, C9-11, ethoxylated ; CAS No. : 68439-46-3)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 72 h
Parameter : EC50 (FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 1 - 10 mg/l
Exposure time : 72 h
Method : DIN 38412 / part 9
Parameter : EC50 (CITRONELLOL ; CAS No. : 106-22-9)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 2,4 mg/l
Exposure time : 72 h

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

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Parameter : NOEC (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE ; CAS No. : 2372-82-9)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : > 0,001 - 0,01 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : NOEC (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : > 0,001 - 0,01 mg/l
Method : OECD 201

Toxicity to microorganisms

Parameter : EC50 (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1)
Species : Bacteria toxicity
Effective dose : 7,75 mg/l
Exposure time : 3 h
Method : OECD 209
Parameter : EC10 (SODIUM NITRITE ; CAS No. : 7632-00-0)
Species : Bacteria toxicity
Effective dose : 210 mg/l
Exposure time : 3 h
Method : OECD 209
Parameter : EC10 (FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8)
Evaluation parameter : Bacteria toxicity
Effective dose : 48 mg/l
Exposure time : 17 h
Method : DIN 38412 / part 8
Parameter : EC10 (CITRONELLOL ; CAS No. : 106-22-9)
Species : Bacteria toxicity
Effective dose : 580 mg/l
Exposure time : 30 min

Sewage treatment plant

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

12.2 Persistence and degradability

Abiotic degradation

No data available.

Biodegradation

Evidence for inherent biodegradability. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Distribution

There are no data available on the preparation itself.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The mixture does not contain any substances that have endocrine disrupting properties.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

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Prevent from flowing into surface water/ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

After intended use

Disposal operations

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Recovery operations

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Waste codes/waste designations according to EWC/AVV

Concentrate/larger quantities: 18 01 06* (disinfectant).

SECTION 14: Transport information

14.1 UN number

UN 1719

14.2 UN proper shipping name

Land transport (ADR/RID)

CAUSTIC ALKALI LIQUID, N.O.S. (3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C5
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 1 I · E 2
Hazard label(s) : 8 / N

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 1 I · E 2 · IMDG-Code segregation group 18 - Alkalis
Hazard label(s) : 8 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 2
Hazard label(s) : 8

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

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Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

National regulations

Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling

16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimates

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CMR = Carcinogen, Mutagen or Reproductive toxicant

CO₂ = Carbon dioxide

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC = European Commission

EC50 = Half maximal effective concentration

EN = European Standard (Norm)

EU = European Union

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

H statement = GHS Hazard statement

IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions

IMDG = International Maritime Dangerous Goods

LC50 = Median lethal concentration

LD50 = Median lethal dose

LogPow = Logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOEC/NOEL = No observed effect concentration/level

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

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PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RMM = Risk Management Measure
RRN = REACH Registration Number
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
SVHC = Substances of Very High Concern
TLV/STEL = Threshold limit value/short-term exposure limit
TLV/TWA = Threshold limit value/time weighted average
UN = United Nations
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

16.5 Relevant H- and EUH-phrases (Number and full text)

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

Follow the instructions for use on the label.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
